

In the Specification:

Please amend the paragraph beginning on page 6, line 2 with the following rewritten paragraph:

A radiation imaging device includes scintillation crystal sheets arranged in parallel to each other. Semiconductor photodetector positional detectors read light from large faces of the scintillation crystal sheets to detect interactions in the scintillation crystal sheets and independently provide positional information concerning the interactions relative to at least one axis. The structures of the photodetectors and crystal sheets provide for very small spaces between the sheets.